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*Fatal effects of Lightning ; in a letter to the Rev. JOSEPH WIL-  
LARD, president of the university in Cambridge; and vice presi-  
dent of the American Academy of Arts and Sciences. By Rev.  
JOHN LATHROP, D.D. A.A.S.*

*Boston, July 1st, 1798.*

REV. SIR,

**I**N compliance with the request of the Academy, express-  
ed at the last meeting, that the several members would commu-  
nicate such cases of the effects of lightning, as may have come  
to their knowledge, I have the honor to communicate the  
only case which has happened in this town, so far as I can  
learn, in which life has been destroyed by a stroke of light-  
ning.

The account which I am about to give has been communi-  
cated to me by Mr. Benjamin Henderson. Mr. Henderson is  
now 72 years old, and as he was 12 at the time, he has a clear  
remembrance of the thunder storm, and of the effects.

He informs me that he then lived with his mother in the  
house which makes the north side of the arch, leading to the  
dwelling house of the late Jonathan Williams, Esq. There  
were in the room five gentlemen belonging to the general  
court, himself, his sister, and Deborah Stratton, the young per-  
son who was killed.

As the storm increased, this Deborah, a child of about 13  
years old, being intimidated, ran to one of the gentleman, who  
fat

sat very near a window, and placed herself on the floor between his feet ; covering her head with the skirt of his coat. Mr. Henderson, who gives me the account, sat also on the floor, not more than two feet from the fatal spot.

The cloud came up in the west, and in the midst of the storm, there was a violent discharge of thunder, which burst off the casing of the window near which they sat, carrying pieces of the boards to the middle of the room, and filling the whole with a strong sulphureous smell.

As soon as the persons in the room were recovered from the first impression, they found the girl was dead. Mr. Henderson, who gives me the account, was for some time insensible of what had happened. His sister was also struck down. He tells me, he had no recollection of the *clap*, but as he came to his senses, he saw the girl dead, and found himself so injured that he could not stand. He was put to bed, and in the morning he found one of his arms was burnt and blistered ; and several days passed before he recovered the use of his limbs.

I cannot determine from any circumstances related whether the discharge was from the cloud, or from the earth. The casings of the window, indeed, were flung *into* the room, but it appears from careful observation, that splinters and light pieces of wood, were driven, at the time of explosion, in every direction from the place where a breach is made.

In the cellar, and directly under the place where the unfortunate child was sitting, there was an iron spit, the one end  
of

of which stood on the ground, and the other rested on the cellar wall.

The sharp end of the spit, which rested on the wall, was melted ; and directly over the spit, there was a small breach in the floor of the room.

If the charge was from the earth, the spit conducted it in safety, as far as it reached ; and as the electrical fluid is always condensed, and acts with most force, at going off, or entering the sharp point of a conductor ; it melted the end of the spit, as now described. The charge then took the nearest good conducting matter, which happened to be the unfortunate child, sitting on the floor, directly over the spit. In passing through the floor, it is probable the fluid diverged ; the greatest part passed through the child, and produced instant death. A smaller portion took Mr. Henderson's arm, and burned it ; the whole then took the iron hinges, and hooks of the window, and the lead in which the glass was set, and so passed away without leaving any other marks of its progress, except throwing a few bricks from the chimney ; or, if the charge was from the *cloud*, the effects and appearances would probably have been the same. This accident shows the danger of placing ourselves in the course, between different portions of conducting matter, in the time of a thunder shower.

The iron spit, standing by the wall, in the cellar, and the lead and iron work of the window, were good conductors. The explosion, whether from the ground, or from the cloud,  
found

found the unhappy child between those portions of conducting matter, and killed her in a moment.

It is remarkable, that the gentleman, between whose feet she sat, and with the skirt of whose coat she covered her face, received no hurt.

*August 14th.*

SINCE writing the above, another person, an inhabitant of Boston, has been killed by lightning.

On the tenth instant, five men were employed, by the selectmen of the town, to take a corpse, which had lain in a place unfrequented, until it became extremely offensive, and bury it on a small island in the harbour.

While digging the grave, they observed a cloud gathering nearly over them. As one of the men was at work in the grave, and two others were standing very near, there was an unexpected discharge of lightning, which struck to the ground the two men who had been standing by the grave, one on each side.

The man who was then in the grave, tells me, the clap seemed to him like the report of two or three cannon, in as quick succession as possible. He instantly looked up, and saw the two men lying on the ground. With such assistance as he, and the other men were able to give, one of the two, who were struck, was soon recovered ; in the other, whose name

was

was *James Dill*, no remains of life were seen ; his hat was torn very much, and was lying several feet from him. There was a breach in the skin of his head, from which the blood ran down his face. From the breach in his head there was a dusky appearance like that which is made by the burning of gun powder, down his neck and breast, and so (chiefly on the left side) to his feet.

Col. Revere, who in the discharge of his duty as coroner, examined the body, tells me, he observed the breach in the skin of the head, and also a white mark, like a *scratch*, down the neck ; which he thought, was over the jugular vein ; and on each side the white appearance, there were dusky streaks as described before.

The man who was killed, had on a pair of strong canvas trowsers, both legs of which were torn open ; the left in two or three places.

As the members of the academy wish to have every circumstance communicated, which carries evidence to show the direction of the charge, I will submit the following reasons to show, that in this case, the earth was *positive*, and the direction of the charge was upwards.

The morning of the day, and all the forenoon, was extremely hot, with the wind, very small, most of the time, from the west. After a short calm, about 12 o'clock, there was a light breeze from the east and south east, and in a short time clouds began to appear.

According to the theory, which I believe is now generally received, the east and south east wind having taken from the atmosphere, a portion of the electrical matter, the particles of vapour, which had been separated by it, approached nearer each other, and appeared in clouds. As the region of the atmosphere, in which the clouds were thus formed, had been deprived of electrical matter, by the moist south east wind, the electricity of the clouds formed in that portion of the atmosphere, must have been *negative*, until supplied with the fluid, from some other quarter. The cloud which we are now considering, I had observed with more than common attention from my house. It was *small*, but appeared very much condensed by the action of opposite winds.

The men who were on the island say, there had been no rain or thunder from the time of their landing ; the fatal *clap* was the *first* discharge. As a portion of the electrical matter had been taken off, before and at the time when the cloud was forming, and the clap which killed the man was the *first*, there is reason to think the charge went from the spot on the island, where he stood, to the cloud, and so restored the *equilibrium*. Some circumstantial evidence, that the electricity of the earth was *positive*, perhaps may be gathered from the bursting open of the canvass trowsers, the tearing of the hat, and the breach in the man's head. The electrical fluid passing from the earth, directly under the man, tore asunder the dry linen trowsers, which were open at the bottom, and tight at the top. The hat also, being of wool, and dry, was a bad conductor. It gave some obstruction to the passing fluid, and was therefore

torn in pieces, and driven to some distance. This resistance might also give such a direction to the fluid, as to break the skin; a thing not common even where strokes of lightning have been fatal. But whether the thoughts now suggested carry any evidence to prove that the electricity of the earth, in the case we have been considering, was positive, or not, I hope others who have given more attention to studies of this sort than I have been able to, will be led to make such communications as shall serve to illustrate this interesting branch of natural philosophy.

With great respect and esteem,

I am, Sir,

Your most obedient,

And humble servant,

JOHN LATHROP.

*Rev. Dr. Willard.*



*An account of the effects of Lightning on the house of JONATHAN MASON, Esq. in Boston. In a letter to the Rev. JOSEPH WILLARD, D.D. L.L.D. and vice president of the American Academy of Arts and Sciences. By Rev. JOHN LATHROP, D.D.*

SIR,

ABOUT 2 o'clock, P. M. on Wednesday the 23d of May, a cloud, which had been several hours collecting in the west and north, came up with a brisk wind and heavy claps  
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